SF

Notice of Allowability	Application No.	Applicant(s)
	10/782,875	WANG ET AL.
	Examiner	Art Unit
	Patrick J. Connolly	2877
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>23 February 2004</u> .		
2. The allowed claim(s) is/are <u>1-20</u> .		
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") muss (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date hereto. Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the content of the paper of the pape	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	Office action of ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 Notice of Informal D	Setont Application (DTO 450)
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		ratent Application (PTO-152)
	Paper No./Mail Dat	te
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	98), 7. Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
	San	nedev, Jr.

Art Unit: 2877

DETAILED ACTION

Drawings

The drawings filed on 23 February 2003 are acceptable subject to correction of informalities as enumerated under 37 CFR 1.84, with particular attention to sections (i) and (p) regarding the uniformity of lines, numbers and characters. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

Allowable Subject Matter

Claims 1-20 allowed.

The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render obvious a method to determine extrema of interference signals produced by a QSPI including: peak detecting for peaks and valleys in the Q signal in close proximity to the zer-crossing points in the I signal, to thereby determine maximum and minimum points of the Q signal; and peak detecting for peaks and valleys in the I signal in close proximity to the zero-crossing points in the Q signal, to thereby determine maximum and minimum points of the I signal, in combination with the rest of the limitations of claim 1.

As to claim 9, the prior art of record, taken alone or in combination, fails to disclose or render obvious an arrangement for determining intensity envelopes of interference signals including: a processor configured to determine true maximum and minimum points from the interference signals I and Q and to create intensity envelopes from the true maximum and minimum points, in combination with the rest of the limitations of claim 9.

Application/Control Number: 10/782,875

Art Unit: 2877

Page 3

As to claim 16, the prior art of record, taken alone or in combination, fails to disclose or render obvious a system for determining the extrema of interference signals produced by a QPSI including: means for determining extrema of the I and Q signals based on zero-crossing points in the I and Q signals and detected peaks and valleys in the I and Q signals in close proximity to the zero-crossing points, in combination with the rest of the limitations of claim 16.

Application/Control Number: 10/782,875

Art Unit: 2877

Page 4

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Connolly whose telephone number is 571.272.2412. The examiner can normally be reached on 9:00 am - 7:00 pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on 571.272.2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

pjoegt 03.15.2006